

PATENT  
Serial No. 10/541,989  
Amendment in Reply to Office Action mailed on June 19, 2006

IN THE SPECIFICATION

Please amend the specification as follows:

Replace the paragraph on page 5, between lines 4-25 of the specification with the following:

In the loudspeaker according to the invention, the housing 2 is provided with a conical forepart 22a, a base part 22b and a cylindrical intermediate part 22c. The conical part 22a is positioned near the front side 2a of the housing 2 and widens toward the front side 2a. The base part 22b is located near the rear side 2b of the housing 2 and may be widening towards the rear side 2b and may be strengthened by a rib structure 22b<sub>1</sub>. The base part 22b may be provided with mounting means 22b<sub>2</sub> for mounting the loudspeaker into a case, e.g. formed by a door of a motor vehicle. The intermediate part 22c extends between the forepart 22a and the base part 22b and has transition areas 22c<sub>1</sub> and 22c<sub>2</sub> and 22c<sub>3</sub>, by means of which it is connected to the part 22a and the part 22b, respectively. These transition areas 22c<sub>1</sub> and 22c<sub>2</sub> are dimensioned in such a way that they function as hinges beyond a predetermined

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axial load (L) acting on the housing 2 and directed in a direction from the one side (2a or 2b) of the housing 2 to the other side (2b or 2a) of the housing 2. Such a load may be caused by a forward axial force F acting on the magnet system 6a of the actuator 6, while the front side 2a of the housing 2 is prevented from moving in the forward axial direction. During hinging, i.e. bending, the transitions 22c<sub>1</sub> and 22c<sub>2</sub>, the forepart 22a and the base part 22b relatively turn to each other, in addition to which the forepart 22a simultaneously moves inwardly, i.e. towards the translation axis 10. These complex movements are demonstrated in FIGS. 3 and 4. As can be derived from FIG. 3, which shows the core in which only a relatively small deformation of the housing has taken place, the transition 22c<sub>1</sub> hinges outwardly while the transition 22c<sub>2</sub> hinges inwardly. In the situation shown in FIG. 4, further deformation of the transitions 22c<sub>1</sub> and 22c<sub>2</sub> has taken place, resulting in a considerable reduction of the original height H of the loudspeaker without the risk of causing sharp edges.

Replace the paragraph on page 5, between lines 26-31 of the specification with the following:

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The design can be optimized and/or tuned by adapting the value w, i.e. the angle of inclination extending between the forepart 22a of the housing 2 and a line parallel to the translation axis 10, the value T, i.e. the thickness of the cylindrical intermediate part 22c, and the value L, i.e. the length of the intermediate part 22c, to the desired elastic deformation of the housing in relation to a certain load. In this context, it is noted that a certain length L is required in order to create two hinges.

Replace the paragraph on page 6, between lines 9-10 of the specification with the following:

If suitable, the material of the intermediate part 22c can be chosen to be different from the material of the other parts 22a and 22b.